The Reason Of Six In Logic: Anastomotic Cognition in Social Functions and Ideological Society Mode Rules.

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Abstract

This study examines the fundamental role of the number six in the structure of human cognitive logic, especially in the context of social function and the formation of rule modes in ideological societies. Based on Warren McCulloch's concept of anastomosis and Carl Schmitt's nomos theory, this article argues that the cognitive limit of "six" represents the optimal threshold between representational complexity and human comprehension capacity. Through an interdisciplinary analysis that combines neurophysiology, political philosophy, and sociology of knowledge, this study shows that the six major roles cognitive anastomosis operates in shaping the social and ideological logic of contemporary society.

Keywords: cognitive anastomosis, rule mode, nomos, social logic, representational threshold, ideology

Introduction

Warren Sturgis McCulloch in his concept of "The Six" identified that the logic system of human neurons has a maximum representational limit on six arguments or inputs that can be processed simultaneously in a Venn diagram without losing visual and conceptual coherence (McCulloch, 1965). This phenomenon not only has implications for neurophysiology, but also opens up philosophical discourse on how human society organizes itself in complex social and ideological structures.

In the context of political sociology, Carl Schmitt introduced the concept of "nomos" as a spatial order underlying law and politics, where every society needs a limiting mechanism to create an order from chaos (Schmitt, 2003). This study argues that the "reason of six" in McCulloch's logic operates as a nomos principle in the formation of the rules mode of ideological society, in which social complexity is limited and organized through six fundamental cognitive categories.

Six Roles of Anastomosis in the Function of Social Logic

1. Epistemological Anastomosis: The Distribution of Knowledge

Knowledge systems in society operate through anastomotic networks that allow information to flow through alternative channels when a single source of authority fails or is blocked. In the context of ideological society, epistemological anastomosis allows for the survival of alternative narratives despite facing dominant discursive hegemony.

This can be seen in the phenomenon of digital "echo chambers" where information circulates through a redundant but connected network.

2. Normative Anastomosis: Rule Mode and Legitimacy

Rule mode in ideological societies does not operate hierarchically, but through an anastomotic system in which social norms interconnect and reinforce each other. Political legitimacy does not depend on a single source of authority, but on a distributed network of validations. This concept is in line with Jürgen Habermas' theory of communicative action, where normative validity arises from structured intersubjectivity (Habermas, 1981).

3. Anastomosis of Identity: The Construction of Collective Subjectivity

The formation of identity in an ideological society occurs through an anastomotic process in which various symbolic, narrative, and social praxis' elements intersect to form a collective subjectivity. Benedict Anderson's "imagined communities" can be understood as a product of identity anastomosis, in which communities are formed through a network of mutually reinforcing representations (Anderson, 2006).

4. Economic Anastomosis: The Distribution of Resources and Power

The economic system in an ideological society operates through an anastomotic mechanism in which the flow of capital, labor, and resources not only follows formal market channels, but also through informal networks that intersect. Pierre Bourdieu's concept of different forms of capital (economic, cultural, social, symbolic) describes how the anastomotic system of the economy operates in the reproduction of social structures (Bourdieu, 1986).

5. Communicative Anastomosis: Media and Public Discourse

In the digital era, communicative anastomosis becomes increasingly complex where information, opinions, and narratives circulate through multiple interconnected platforms. Manuel Castells' "network society" describes how power in contemporary society operates through the logic of networks rather than the logic of hierarchy (Castells, 2015).

6. Temporal Anastomosis: Collective Memory and Future Projections

The temporal dimension in ideological society operates through an anastomosis between collective memory, the present moment, and the projection of the future. Walter Benjamin's concept of "constellation" in history describes how the past and

present interact with each other in a moment of recognition that results in political action (Benjamin, 1968).

Theoretical Framework Analysis

Nomos and Cognitive Threshold

Carl Schmitt's nomos as a "concrete order" in the political space can be understood as a manifestation of the "reason of six" at the macro-social level. Human society needs a limiting mechanism to organize social complexity to stay within cognitive boundaries that can be understood and managed. The six categories of anastomosis identified in this study operate as cognitive nomos that form the rule mode in ideological societies.

Rule Mode dan Distributed Governance

The concept of rule mode in the context of cognitive anastomosis does not refer to a rigid rule-based system, but rather to an adaptive and distributed mode of governance. This is in line with Michel Foucault's concept of "governmentality" where power operates through technologies of the self and population management rather than direct coercion (Foucault, 2007).

Implications and Conclusions

The "reason of six" in McCulloch's logic provides a theoretical framework for understanding how ideological societies organize themselves through a limited but flexible anastomotic system. The six roles of anastomosis identified – epistemological, normative, identity, economic, communicative, and temporal – operate as cognitive infrastructure that allows complex societies to remain functional within the boundaries of human understanding.

This research shows that the cognitive threshold of "six" is not only a neurobiological phenomenon, but also a fundamental organizational principle in social and political structures. The implications of these findings are relevant for the development of contemporary political theory, particularly in understanding how digital societies organize themselves in an era of information overload and ideological fragmentation.

Further research is needed to explore how the "reason of six" operates in specific contexts such as social media platforms, political movements, and economic networks. The development of an empirical methodology for measuring and analyzing cognitive anastomosis in real-world social settings is an urgent research agenda.

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